

THAT WHICH IS CLAIMED:

1. A drum lock apparatus comprising:
  - a base member;
  - a cover member secured to said base member, said base member and said cover member defining a housing therebetween;
  - a first engagement member defined by one of said base member or said cover member and adapted for securing to a rim of a drum;
  - a second engagement member defined by one of said base member or said cover member and adapted for securing to a rim of a drum, at least one of said first and said second engagement members being reversibly positionable to an unlocked position distal from said housing; and,
  - at least one solenoid carried in said housing, said solenoid operatively engaging at least one of said first and said second engagement members when said respective engagement member is in a locked position, thereby maintaining said first or said second engagement member in a locked position.
2. The drum lock apparatus according to claim 1 wherein a third engagement member defined by one of said base members or said cover members and is adapted for securing to a rim of a drum.
3. The drum lock apparatus according to claim 1 wherein said housing contains therein a power source in communication with said at least one solenoid; and,
  - a microprocessor in communication with said power source and said solenoid.
4. The drum lock apparatus according to claim 3 wherein said housing further defines therein a sensor for monitoring an environmental parameter in proximity to said drum lock apparatus.

5. A security apparatus for attachment to a transported item comprising:

- an upper panel;
- a lower panel positioned beneath said upper panel;
- a housing defined between said upper and said lower panels;
- a global positioning satellite transceiver positioned within said housing;
- a microcontroller positioned within said housing;
- a radio frequency transceiver positioned within said housing;
- at least one sensor contained within said housing; and,
- an audible alarm device;

wherein, said security apparatus signals through said audible alarm device when said sensor signals an alarm condition.

6. The security apparatus according to claim 5 wherein said sensor is selected from the group of sensors consisting of a radiation sensor, a motion sensor, an accelerometer, a tilt sensor, a vibration sensor, a temperature sensor, a fire sensor, a smoke sensor, and a chemical sensor.

7. The security apparatus according to claim 5 wherein said security apparatus contains within said housing a two-way communication device adapted for providing communication with a remote monitoring station.

8. The security apparatus according to claim 5 wherein said radio frequency transceiver provides a proximity monitoring capability, said RF transceiver signaling said audible alarm device when said security apparatus is removed from a defined location.

9. A security apparatus for a cargo drum comprising:
  - a panel adapted for placement onto an upper surface of a cargo drum lid, the panel defining an outer perimeter having a plurality of attachment surfaces;
  - a plurality of brackets, each one of said brackets secured to a corresponding one of said plurality of attachment surfaces, each of said plurality of brackets defining a lip positioned below said panel and adapted for engaging an upper rim of a cargo drum;

wherein, when said security apparatus is positioned over a surface of a cargo drum lid, said security apparatus prevents removal of a lid from a cargo drum.
10. The security apparatus according to claim 9 wherein a lower surface of said panel supports a switch responsive to removal of the security apparatus from a cargo drum lid.
11. The security apparatus according to claim 10 wherein said tamper switch is in operative communication with an audible alarm, said alarm carried within a housing supported by said panel.
12. The security apparatus according to claim 11 wherein said housing further defines a global positioning satellite transceiver positioned within said housing;
  - a microcontroller positioned within said housing;
  - a radio frequency transceiver positioned within said housing; and,
  - at least one sensor contained within said housing;

wherein said security apparatus signals through said audible alarm device when said sensor signals an alarm condition.

13. The security apparatus according to claim 12 wherein said housing additionally contains a two-way communication device adapted for providing communication with a remote monitoring station.

14. The security apparatus according to claim 12 wherein said sensor is selected from the group of sensors consisting of a radiation sensor, a motion sensor, an accelerometer, a tilt sensor, a vibration sensor, a temperature sensor, a fire sensor, a smoke sensor, and a chemical sensor.

15. A drum security apparatus comprising:  
a base member;  
a cover member secured to said base member, said base member and said cover member defining the housing therebetween;  
a first engagement arm defined by one of said base member or said cover member adapted for securing to a rim of a drum;  
a second engagement arm defined by one of said base member or said cover member and adapted for securing to a rim of a drum;  
wherein, when said first engagement arm and said second engagement arm operatively engage a respective rim of a drum, said security apparatus prevents removal of the drum lid from a body of the drum.

16. The drum security apparatus according to claim 15 wherein said first engagement arm and said second engagement arm each define a respective resilient arcuate edge terminus for engaging the rim of a drum;  
wherein, when said first engagement arm and said second engagement arm are secured to a rim of a drum, said drum security apparatus prevents the removal of a drum lid from a drum.

17. The drum security apparatus according to claim 16 wherein when said first engagement arm and said respective resilient arcuate edge terminus is placed against an edge of a drum rim, said arcuate edge terminus of said second

engagement arm may be forced over a corresponding portion of a rim of a drum, thereby engaging said rim of said drum.

18. The drum security apparatus according to claim 15 wherein said drum security apparatus defines a third engagement arm defined by one of said base member or said cover member and adapted for securing to a rim of a drum.

19. The drum security apparatus according to claim 15 wherein said drum security apparatus defines further defines a tamper switch.

20. The drum securing apparatus according to claim 15 wherein said housing contains therein a microcontroller which is in further communication with at least one sensor contained within said housing.